

[Definite Report] Airborne Nuclide analysis results at ventilation facility of Unit 2 reactor bldg. in the Fukushima Daiichi NPS

Place of Sampling	Ventilation facility of Unit 2 reactor bldg. (Opening of exhaust gas filter)		Ventilation facility of Unit 2 reactor bldg. (Outlet of exhaust gas filter)				② Density Limit in the Air for Workers to Engage in Radiation Related Tasks (Bq/cm ³)*
	From January 9, 2015 10:57 AM To January 9, 2015 12:56 PM		From January 9, 2015 10:47 AM To January 9, 2015 12:47 PM				
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-	ND	-			1E-03
Cs-134 (Approx. 2 years)	7.4E-06	0.00	ND	-			2E-03
Cs-137 (Approx. 30 years)	2.2E-05	0.01	ND	-			3E-03
Mn-54 (Approx. 310 days)	ND	-	ND	-			2E-02
Co-60 (Approx. 5 years)	ND	-	ND	-			1E-03
Nb-95 (Approx. 35 days)	ND	-	ND	-			2E-02
Tc-99m (Approx. 6 hrs)	ND	-	ND	-			7E-01
Ru-106 (Approx. 370 days)	ND	-	ND	-			6E-04
Ag-110m (Approx. 250 days)	ND	-	ND	-			3E-03
Sb-125 (Approx. 3 yrs)	1.2E-06	0.00	ND	-			6E-03
Te-129 (Approx. 70 mins)	ND	-	ND	-			4E-01
Te-129m (Approx. 34 days)	ND	-	ND	-			4E-03
I-132 (Approx. 2 hrs)	ND	-	ND	-			7E-02
Te-132 (Approx. 78 hrs)	ND	-	ND	-			4E-03
I-133 (Approx. 21 hrs)	ND	-	ND	-			5E-03
Cs-136 (Approx. 13 days)	ND	-	ND	-			1E-02
Ba-140 (Approx. 13 days)	ND	-	ND	-			1E-02
La-140 (Approx. 40 hrs)	ND	-	ND	-			1E-02

* The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

* 0.0E-0 is the same as 0.0×10^0

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

Detection limits for Ventilation facility of Unit 2 reactor bldg. (Opening of exhaust gas filter) are as follows:
(The value shown below is approximate)

For Volatile radioactive materials: I-131: 2E-7Bq/cm³, Cs-134: 3E-7Bq/cm³, and Cs-137 is 6E-7Bq/cm³

For Particle radioactive materials: I-131: 3E-7Bq/cm³

Detection limits for Ventilation facility of Unit 2 reactor bldg. (Outlet of exhaust gas filter) are as follows:
(The value shown below is approximate)

For Volatile radioactive materials: I-131: 2E-7Bq/cm³, Cs-134: 4E-7Bq/cm³, and Cs-137 is 6E-7Bq/cm³

For Particle radioactive materials: I-131: 1E-7Bq/cm³, Cs-134: 2E-7Bq/cm³, and Cs-137 is 3E-7Bq/cm³